	Application No.	Applicant(s)
·	10/817,213	ARINI ET AL.
Notice of Allowability	Examiner	Art Unit
	NAIA NA TUONAAC	0004
·	MIA M. THOMAS	2624
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included in will be mailed in due course. THIS
1. This communication is responsive to applicant's remarks/a	arguments received on 02 Novembe	<u>er 2007</u> .
2. The allowed claim(s) is/are <u>1-4 and 6-32</u> .		
3. Acknowledgment is made of a claim for foreign priority up a) All b) Some* c) None of the:	nder 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	e been received.	
Certified copies of the priority documents have	- · · · ·	
Copies of the certified copies of the priority do	cuments have been received in this	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTC	9-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
	•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948).	6. ☐ Interview Summar	• •
_	Paper No./Mail Da	ate
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amend	Iment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9.	
	Mia M Thomas Examiner Art Unit: 2624	

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Dwayne Bentley (Registration Number 45, 947) on 03 March 3, 2008.

The application has been amended as follows:

Title:

Delete the title: "Method of, and Computer Software of, Classification of Cells into Subpopulations".

Replace with the new title: - - Classification of Cells into Subpopulations using Cell Classifying Data- -

Listing of Claims:

At Claim 1, line 7, delete "parameters"; replace with - - parameter - -.

At Claim 1, line 9, delete "parameters"; replace with - - parameter - -.

At Claim 1, line 15, after "set" and before "cells", insert- - of- -.

At Claim 1, lines 16, delete "said"; replace with "a".

At Claim 1, line 20, delete "parameters"; replace with - - parameter - -.

2. This Office Action is responsive to applications remarks/arguments received on 02 November 2007. Claims 1-35 are pending in the application. Claims 1, 3, 10, 11, 14, 15, 17-21 and 23 have been amended. Claims 5, 33-35 have been cancelled. Claims 1-4 and 6-32 are pending in the application.

Response to Arguments

- A. <u>Claim Objections</u> Applicant's arguments, see page 11 of 18, filed 11/2/07, with respect to Claim Objections 1.75 d(1) of claims 3, 10, 11, 17, and 19 have been fully considered and are persuasive. The objection of the aforementioned claims has been withdrawn.
- B. <u>Claim Objections</u> Applicant's arguments, see page 12 of 18, filed 11/2/07, with respect to Claim Objections 1.75(a) have been fully considered and are persuasive. The objections of claims 18 and 19 has been withdrawn.
- C. <u>Claim Rejections</u> 35 U.S.C. 101
 Applicants have cancelled Claims 34-35. Applicants have cancelled Claim 34. Examiner withdraws the rejection of these claims.
- D. <u>Claim Rejections</u> 35 U.S.C. 102/103

 Applicant's arguments, see page 15-17 of 18, filed 11/02/07, with respect to 35 U.S.C 102/103 rejections have been fully considered and are persuasive. The rejection of claims 2-4, 8, 8-13, and 21-23 has been withdrawn. The rejections of Claims 7, 14-20,

24-30,31,and 32 has also been withdrawn.

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Allowable Subject Matter

2. Claims 1-4 and 6-32 are allowed.

3. The following is an examiner's statement of reasons for allowance:

Amended Claim 1 is drawn to a method of "classifying a first set of cells by a user selected

classification method, the process of classifying the first set of cells including classifying said at

least one selected first cell into a subpopulation by optimizing dimensionality of feature space

and storing first identifying data indicating the subpopulation into which said at least one

selected first cell has been classified; deriving cell classifying data for use in classifying a

second set of cells into subpopulations from a first parameter set and said first identifying data,

and classifying a second set of cells into subpopulations on the basis of one or more

measurements based on at least one of the plurality of parameter sets weighted in relation to

the plurality of parameter sets.

Specifically, the user selected classification method to weigh any one of the plurality of

parameters of the first set of cells in order to classify the first set of cells is unique to this

invention.

The closest prior art made of record is with regards to Examiner's U.S.C.103 rejections

including the following prior art made of record:

US 2004/0071328

US 7,117,098 ²

US 2006/0127881

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US 2004/0071328

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Any comments considered necessary by applicant must be submitted no later than the,

payment of the issue fee and, to avoid processing delays, should preferably accompany the

issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to MIA M. THOMAS whose telephone number is (571)270-1583. The

examiner can normally be reached on Monday-Thursday 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vikkram Bali can be reached on 571-272-7415. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mia M Thomas/

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